ELSEVIER

Journal of Crystal Growth 141 (1994) 487–491

JOURNAL OF CRYSTAL GROWTH

Author index

Aanegola, S.K., see McCann 141 (1994) 376
Adachi, G., see Imanaka 141 (1994) 150
Akamatsu, B., see Lamare 141 (1994) 347
Alexandre, F., see Lamare 141 (1994) 347
Anayama, C., see Kondo 141 (1994) 1
Anzai, H., T. Itoh, N. Kinoshita, K. Honda, M. Tokumoto and T. Uchida, The effect of guest molecules on the crystal growth of the organic superconductor κ-(BEDT-TTF)$_2$Cu(NCS)$_2$ 141 (1994) 119
Arivuoli, D., see Krishnamurthy 141 (1994) 371
Asaeda, M., see Kitamura 141 (1994) 193
Asai, S., see Okajima 141 (1994) 357
Assmus, W., see Römer 141 (1994) 159
Auvray, P., see Contour 141 (1994) 141
Ayers, W., see Menna 141 (1994) 310

Badaud, J.P., see Coupat 141 (1994) 465
Baldus, A., A. Bett, O.V. Sulima and W. Wettling, Hybrid molecular beam epitaxy/low-temperature liquid phase epitaxy growth of GaAs (AlGaAs) layers on Si 141 (1994) 315
Banazadeh, M., see Kriebel 141 (1994) 124
Batur, C., see Kasparian 141 (1994) 455
Bauser, E., see Gustafsson 141 (1994) 363
Becker, U., see Grün 141 (1994) 68
Becker, U., see Giessen 141 (1994) 75
Ben Hadid, H., see Kaddeche 141 (1994) 279
Benchimol, J.L., see Lamare 141 (1994) 347
Benz, K.W., see Laasch 141 (1994) 81
Benz, K.W., see Tegetmeier 141 (1994) 451
Bett, A., see Baldus 141 (1994) 315
Bhat, H.L., see Dutta 141 (1994) 44
Bhat, H.L., see Dutta 141 (1994) 476
Bilger, G., see Fischer 141 (1994) 93
Blakemore, J.S., see Nordquist 141 (1994) 343
Bogdanov, S., see Giessen 141 (1994) 75
Braden, M., see Kriebel 141 (1994) 124
Bretz, M., B.G. Demczyk and L. Zhang, Structural imaging of a thick-walled carbon microtubule 141 (1994) 304

Cadoret, R., see Coupat 141 (1994) 465
Capewell, D.R., see Menna 141 (1994) 310
Caulet, J., see Contour 141 (1994) 141
Chen, H., see Tan 141 (1994) 393
Chernov, A.A., see Coriell 141 (1994) 219
Chu, Y.M., see Duan 141 (1994) 103
Chung, S.M., see Lee 141 (1994) 209
Clydesdale, G., K.J. Roberts, K. Lewtas and R. Docherty, Modelling the morphology of molecular crystals in the presence of blocking tailor-made additives 141 (1994) 443
Contour, J.P., D. Ravelosona, C. Sant, C. Frétigny, C. Dolin, J. Rioux, P. Auvray and J. Caulet, Homoepitaxial growth of low roughness $SrTiO_3$ by pulsed laser deposition: application to $YBa_2Cu_3O_{7-x}$-based thin films and superlattices 141 (1994) 141
Coriell, S.R., see Lee 141 (1994) 209
Coriell, S.R., B.T. Murray and A.A. Chernov, Kinetic self-stabilization of a stepped interface: binary alloy solidification 141 (1994) 219
Coupat, B., J.P. Badaud, J.P. Fournier, S. Er-Raji, R. Cadoret and A. Magnan, Interactions between growth kinetics and physical vapour transport of HgI_2 in microgravity 141 (1994) 465
Cröll, A., see Tegetmeier 141 (1994) 451
Curelaru, I.M., see Jang 141 (1994) 399

Dabkowska, H., see Imanaka 141 (1994) 150
Dabkowski, A., see Imanaka 141 (1994) 150
Davis, R.F., see Sitar 141 (1994) 11
De Boer, S., see Van Driel 141 (1994) 404
Demczyk, B.G., see Bretz 141 (1994) 304
Docherty, R., see Clydesdale 141 (1994) 443
Dolin, C., see Contour 141 (1994) 141
Duan, X.F., K.K. Fung and Y.M. Chu, Estimation of the strain state of Ge_xSi_{1-x}/Si strained-layer superlattices by double-crystal X-ray diffraction 141 (1994) 103
Dutta, P.S., K.S. Sangunni, H.L. Bhat and V. Kumar, Growth of gallium antimonide by vertical Bridgman technique with planar crystal–melt interface 141 (1994) 44
Dutta, P.S., K.S. Sangunni, H.L. Bhat and V. Kumar, Experimental determination of

melt–solid interface shapes and actual growth rates of gallium antimonide grown by vertical Bridgman method 141 (1994) 476
Duval, W.M.B., see Kasparian 141 (1994) 455

Erné, B., see Weyher 141 (1994) 57
Er-Raji, S., see Coupat 141 (1994) 465

Fischer, F., A. Waag, G. Bilger, Th. Litz, S. Scholl, M. Schmitt and G. Landwehr, Molecular beam epitaxy of iodine-doped CdTe and (CdMg)Te 141 (1994) 93
Fölsch, S., T. Maruno, A. Yamashita, T. Hayashi, M. Tomita, H. Konami and M. Hatano, Crystallographic structure of the novel metallophthalocyanine derivative 2,3 : 12,13-dibenzophthalocyaninato–Zn(II) 141 (1994) 256
Fornari, R., see Weyher 141 (1994) 57
Fournier, J.P., see Coupat 141 (1994) 465
Franks, L.A., see Monchamp 141 (1994) 178
Fredericks, W.J., M.C. Hammonds, S.B. Howard and F. Rosenberger, Density, thermal expansivity, viscosity and refractive index of lysozyme solutions at crystal growth concentrations 141 (1994) 183
Freitag, B., see Kriebel 141 (1994) 124
Frétigny, C., see Contour 141 (1994) 141
Fujii, M., see Iwanaga 141 (1994) 234
Fujii, N., see Mihashi 141 (1994) 22
Fujimoto, H., see Nishio 141 (1994) 249
Fukada, T., see Okano 141 (1994) 383
Funahashi, R., see Matsubara 141 (1994) 131
Fung, K.K., see Duan 141 (1994) 103
Furukawa, H., see Kitamura 141 (1994) 193
Furukawa, Y., see Shinohara 141 (1994) 352

Giessen, H., see Grün 141 (1994) 68
Giessen, H., U. Becker, W. Langbein, S. Bogdanov, H. Kalt, M. Grün and C. Klingshirn, Wurtzite-type CdS and CdSe epitaxial layers. II. Nonlinear optical properties 141 (1994) 75
Gopalakrishnan, R., see Krishnamurthy 141 (1994) 371
Gorman, R.J., see Nordquist 141 (1994) 343
Görög, T., see Weyher 141 (1994) 57
Greedan, J.E., see Imanaka 141 (1994) 150
Grün, M., M. Hetterich, U. Becker, H. Giessen and C. Klingshirn, Wurtzite-type CdS and CdSe epitaxial layers. I. Growth and characterization 141 (1994) 68
Grün, M., see Giessen 141 (1994) 75
Gustafsson, A., P.O. Hansson and E. Bauser, Cathodoluminescence from relaxed Ga_xSi_{1-x} grown by heteroepitaxial lateral overgrowth 141 (1994) 363

Halaj, J., Growth-rate-independent dopant transport in silicon epitaxy 141 (1994) 98
Hammonds, M.C., see Fredericks 141 (1994) 183
Han, Z.Y., S.F. Yoon and K. Radhakrishnan, Electrical characteristics of GaAs–$Al_{0.33}Ga_{0.67}As$ tunnelling structures grown by molecular beam epitaxy 141 (1994) 51
Hansson, P.O., see Gustafsson 141 (1994) 363
Harano, Y., see Hirokawa 141 (1994) 200
Harris, Jr., J.S., see Kim 141 (1994) 37
Hasegawa, M., see Jang 141 (1994) 153
Hatano, M., see Fölsch 141 (1994) 256
Hayashi, T., see Fölsch 141 (1994) 256
He Youping, Su Genbo, Yiu Guiming, Huang Xiangjin and Jang Rihong, Growth and characterization of a new organic nonlinear optical crystal: 1-(3-thienyl)-3-(4-chlorophenyl)-propene-1-one 141 (1994) 389
Henry, D., see Kaddeche 141 (1994) 279
Henry, R.L., see Nordquist 141 (1994) 343
Hentschel, M.P., see Jang 141 (1994) 399
Hetterich, M., see Grün 141 (1994) 68
Hirano, M., see Murata 141 (1994) 29
Hirokawa, N., M. Ueda and Y. Harano, Polymorphic transition of solid-fats dispersed systems – its characterization by a novel method and scanning electron microscopy observation 141 (1994) 200
Honda, K., see Anzai 141 (1994) 119
Hoshikawa, K., see Okano 141 (1994) 383
Howard, S.B., see Fredericks 141 (1994) 183
Hua, S.Z., L. Salamanca-Riba, M. Wuttig and P.K. Soltani, Microstructural studies of photoluminescent thin films of SrS: Eu^{2+},Sm^{3+} 141 (1994) 165
Huang Xiangjin, see He 141 (1994) 389

Ichihara, M., see Iwanaga 141 (1994) 234
Iga, R., see Sugiura 141 (1994) 299
Imanaka, N., G. Adachi, H. Dabkowska, A. Dabkowski and J.E. Greedan, Flux growth of $Y_2Cu_2O_5$ single crystals 141 (1994) 150
Ishihara, T., see Murata 141 (1994) 29
Itoh, T., see Anzai 141 (1994) 119
Iwanaga, H., M. Fujii, M. Ichihara and S. Takeuchi, Some evidence for the octa-twin model of tetrapod ZnO particles 141 (1994) 234

Jang, G.E., I.M. Curelaru and M.P. Hentschel, Growth and characterization of large single crystals of the intermetallic compound Li–Ga (Zint1) 141 (1994) 399
Jang Rihong, see He 141 (1994) 389
Jang, W.-J., M. Hasegawa, T.R. Zhao, H. Takei, M. Tamura and M. Kinoshita, Growth, structure and properties of $Y_2Cu_2O_5$ single crystals 141 (1994) 153

Johansen, T.H., An improved analytical expression for the meniscus height in Czochralski growth 141 (1994) 484
Juhel, M., see Lamare 141 (1994) 347

Kaddeche, S., H. Ben Hadid and D. Henry, Macrosegregation and convection in the horizontal Bridgman configuration. II. Concentrated alloys 141 (1994) 279
Kalt, H., see Giessen 141 (1994) 75
Kaneno, N., see Mihashi 141 (1994) 22
Kang, M.S., see Lee 141 (1994) 209
Kasparian, V., C. Batur, W.M.B. Duval, B.N. Rosenthal and N.B. Singh, Application of stereo imaging for recognition of crystal surface shapes 141 (1994) 455
Kataoka, M., K. Kuroda, T. Takami, K. Kojima and M. Nunoshita, Experimental evidence of a designed interface structure model in a highly mismatched system of (001) Bi–Sr–Ca–Cu–O superconducting films on (001) gadolinium gallium garnet substrates 141 (1994) 479
Kawai, T., see Matsubara 141 (1994) 131
Kelly, J.J., see Weyher 141 (1994) 57
Kim, C.K., see Kim 141 (1994) 324
Kim, M.-S., see Kim 141 (1994) 324
Kim, S.-D., H. Lee and J.S. Harris, Jr., Molecular beam epitaxial growth of $In_{0.65}Ga_{0.35}As$ quantum wells on GaAs substrates for 1.5 μm exciton resonance 141 (1994) 37
Kim, S.-I., Y. Kim, M.-S. Kim, C.K. Kim, S.-K. Min and G. Lee, Carbon doping characteristics of GaAs and $Al_{0.3}Ga_{0.7}As$ grown by atmospheric pressure metalorganic chemical vapor deposition using CCl_4 141 (1994) 324
Kim, Y., see Kim 141 (1994) 324
Kinoshita, M., see Jang 141 (1994) 153
Kinoshita, N., see Anzai 141 (1994) 119
Kipp, S., R. Lacmann and M.A. Schneeweis, Methods and apparatus for in situ investigations with the scanning force microscope 141 (1994) 291
Kitamura, M., H. Furukawa and M. Asaeda, Solvent effect of ethanol on crystallization and growth process of L-histidine polymorphs 141 (1994) 193
Kitazawa, M., M. Takahashi and M. Matsuoka, Growth behavior of L-pyrrolidone-2-carboxylic acid (L-PCA) single crystals 141 (1994) 425
Kito, M., see Murata 141 (1994) 29
Klingshirn, C., see Grün 141 (1994) 68
Klingshirn, C., see Giessen 141 (1994) 75
Knauf, N., see Kriebel 141 (1994) 124
Kojima, K., see Kataoka 141 (1994) 479
Komatsu, H., see Miyashita 141 (1994) 419
Konami, H., see Fölsch 141 (1994) 256
Kondo, M., C. Anayama, H. Sekiguchi and T. Tanahashi, Mg-doping transients during metalorganic vapor phase epitaxy of GaAs and AlGaInP 141 (1994) 1
Krasnov, A.N., Energy of formation of Li defects in ZnSe deposited by molecular beam epitaxy 141 (1994) 89
Kriebel, Cl., M. Banazadeh, G. Winkel, N. Knauf, B. Roden, M. Braden and B. Freitag, Crystal growth, separation and characterization of superconducting $Pb_2Sr_2(Y_{1-x}Ca_x)Cu_3O_{8+\delta}$ 141 (1994) 124
Krishnamurthy, D., R. Gopalakrishnan, D. Arivuoli and P. Ramasamy, Growth of oxide crystals: effect of change in melt depth 141 (1994) 371
Kumar, V., see Dutta 141 (1994) 44
Kumar, V., see Dutta 141 (1994) 476
Kuroda, K., see Kataoka 141 (1994) 479
Kürten, M. and J. Schilz, Polycrystalline wetting layer on Czochralski single crystals of strongly segregating systems 141 (1994) 473

Laasch, M., R. Schwarz, P. Rudolph and K.W. Benz, CdTe crystal growth by a sublimation traveling heater method 141 (1994) 81
Lacmann, R., see Kipp 141 (1994) 291
Lamare, B., J.L. Benchimol, M. Juhel, B. Akamatsu, P. Legay and F. Alexandre, High carbon doping of GaAs using trisdimethylaminoarsenic and trimethylgallium in chemical beam epitaxy 141 (1994) 347
Lan, C.W., Heat transfer, fluid flow, and interface shapes in the floating-zone growth of tube crystals 141 (1994) 265
Landwehr, G., see Fischer 141 (1994) 93
Langbein, W., see Giessen 141 (1994) 75
Lee, B.J., see Lee 141 (1994) 209
Lee, C., see Kim 141 (1994) 324
Lee, H., see Kim 141 (1994) 37
Lee, Z.H., B.J. Lee, M.S. Kang, S.M. Chung and S.R. Coriell, Experimental investigation of convection during vertical Bridgman growth of dilute Al–Mg alloys 141 (1994) 209
Legay, P., see Lamare 141 (1994) 347
Lewtas, K., see Clydesdale 141 (1994) 443
Lin, S., see Tan 141 (1994) 393
Litz, Th., see Fischer 141 (1994) 93
Lu, S., see Tan 141 (1994) 393
Luther, K.-D., see Römer 141 (1994) 159
Lyutovich, K.L., see Vdovin 141 (1994) 109

Magnan, A., see Coupat 141 (1994) 465
Mao, H., see Tan 141 (1994) 393

Markov, I. and A. Trayanov, Formation of cracks in epitaxial overlayers 141 (1994) 239
Martinelli, R.U., see Menna 141 (1994) 310
Maruno, T., see Fölsch 141 (1994) 256
Matsubara, I., R. Funahashi, T. Ogura, H. Yamashita, K. Tsuru and T. Kawai, Growth mechanism of $Bi_2Sr_2CaCu_2O_x$ superconducting whiskers 141 (1994) 131
Matsuoka, M., see Kitazawa 141 (1994) 425
McCann, P.J. and S.K. Aanegola, The role of graphite boat design in liquid phase epitaxial growth of $PbSe_{0.78}Te_{0.22}$ on BaF_2 141 (1994) 376
Menna, R.J., D.R. Capewell, R.U. Martinelli, W. Ayers, R. Moulton, J. Palmer and G. Olsen, Epitaxial growth of $InP_{0.88}Sb_{0.12}$ using a stibine generator 141 (1994) 310
Mihalik, G.B., see Monchamp 141 (1994) 178
Mihashi, Y., M. Miyashita, N. Kaneno, M. Tsugami, N. Fujii, S. Takamiya and S. Mitsui, Influence of oxygen on the threshold current of AlGaAs multiple quantum well lasers grown by metalorganic chemical vapor deposition 141 (1994) 22
Mil'vidskii, M.G., see Vdovin 141 (1994) 109
Min, S.-K., see Kim 141 (1994) 324
Mitsuhara, M., see Sugiura 141 (1994) 299
Mitsui, S., see Mihashi 141 (1994) 22
Miyashita, M., see Mihashi 141 (1994) 22
Miyashita, S., H. Komatsu, Y. Suzuki and T. Nakada, Observation of the concentration distribution around a growing lysozyme crystal 141 (1994) 419
Monchamp, R.R., G.B. Mihalik and L.A. Franks, On the nature of striae in strontium barium niobate 141 (1994) 178
Moulton, R., see Menna 141 (1994) 310
Murata, H., see Okajima 141 (1994) 357
Murata, K., T. Ishihara, M. Sato, N. Kito and M. Hirano, ⟨100⟩ Oriented GaAs single crystals grown by boat method 141 (1994) 29
Murray, B.T., see Coriell 141 (1994) 219

Nakada, T., see Miyashita 141 (1994) 419
Nevřiva, M. and E. Pollert, Phase diagram of the $CuO–Bi_2SrO_4$ pseudobinary system 141 (1994) 175
Nishio, J. and H. Fujimoto, Theoretical analysis for the segregation in the liquid encapsulated Czochralski system 141 (1994) 249
Noda, Y., see Shinohara 141 (1994) 352
Nordquist, Jr., P.E.R., R.L. Henry, J.S. Blakemore, S.B. Saban and R.J. Gorman, Annealing of GaAs grown by vertical zone melting 141 (1994) 343
Nugraha, see Shinohara 141 (1994) 352
Nunoshita, M., see Kataoka 141 (1994) 479

Ogawa, T., see Tan 141 (1994) 393
Ogura, T., see Matsubara 141 (1994) 131
Okajima, Y., S. Asai, Y. Terui, R. Terasaki and H. Murata, Precise control of growth site of silicon vapor–liquid–solid crystals 141 (1994) 357
Okano, Y., Y. Tsuji, D.H. Yoon, K. Hoshikawa and T. Fukada, Internal radiative heat transfer in Czochralski growth of $LiTaO_3$ single crystal 141 (1994) 383
Olsen, G., see Menna 141 (1994) 310

Palmer, J., see Menna 141 (1994) 310
Pollert, E., see Nevřiva 141 (1994) 175

Radhakrishnan, K., see Han 141 (1994) 51
Radhakrishnan, S., Polymer induced crystallization. III. PEO–$CdCl_2$ and in situ formation of PEO–CdS composite 141 (1994) 437
Ramasamy, P., see Krishnamurthy 141 (1994) 371
Ravelosona, D., see Contour 141 (1994) 141
Rioux, J., see Contour 141 (1994) 141
Roberts, K.J., see Clydesdale 141 (1994) 443
Roden, B., see Kriebel 141 (1994) 124
Römer, H., K.-D. Luther and W. Assmus, The distribution coefficients of rare earth ions in cubic zirconium dioxide 141 (1994) 159
Rosenberger, F., see Fredericks 141 (1994) 183
Rosenthal, B.N., see Kasparian 141 (1994) 455
Rudolph, P., see Laasch 141 (1994) 81

Saban, S.B., see Nordquist 141 (1994) 343
Saidov, S.M., see Vdovin 141 (1994) 109
Saitoh, T., see Yodo 141 (1994) 331
Salamanca-Riba, L., see Hua 141 (1994) 165
Sangunni, K.S., see Dutta 141 (1994) 44
Sangunni, K.S., see Dutta 141 (1994) 476
Sant, C., see Contour 141 (1994) 141
Sato, M., see Murata 141 (1994) 29
Schilz, J., see Kürten 141 (1994) 473
Schmitt, M., see Fischer 141 (1994) 93
Schneeweis, M.A., see Kipp 141 (1994) 291
Scholl, S., see Fischer 141 (1994) 93
Schwarz, R., see Laasch 141 (1994) 81
Sekiguchi, H., see Kondo 141 (1994) 1
Shinohara, M., Nugraha, Y. Noda and Y. Furukawa, Hg-loss compensation and wiping-off of source liquid on slider liquid phase epitaxy of $Hg_{1-x}Cd_xTe$ 141 (1994) 352
Singh, N.B., see Kasparian 141 (1994) 455
Sitar, Z., L.L. Smith and R.F. Davis, Interface chemistry and surface morphology in the initial stages of GaN and AlN on α-SiC and sapphire 141 (1994) 11
Smith, L.L., see Sitar 141 (1994) 11
Soltani, P.K., see Hua 141 (1994) 165
Su Genbo, see He 141 (1994) 389

Sugiura, H., M. Mitsuhara, R. Iga and N. Yamamoto, Metalorganic molecular beam epitaxial growth of highly uniform InGaAsP quantum well structures using an indium-free holder 141 (1994) 299
Sulima, O.V., see Baldus 141 (1994) 315
Suzuki, Y., see Miyashita 141 (1994) 419

Takahashi, M., see Kitazawa 141 (1994) 425
Takami, T., see Kataoka 141 (1994) 479
Takamiya, S., see Mihashi 141 (1994) 22
Takei, H., see Jang 141 (1994) 153
Takeuchi, S., see Iwanaga 141 (1994) 234
Tamura, M., see Jang 141 (1994) 153
Tamura, M., see Yodo 141 (1994) 331
Tan, Q., H. Mao, S. Lin, H. Chen, S. Lu, D. Tang and T. Ogawa, Defects in β-BaB_2O_4 (BBO) crystals observed by laser scanning tomography 141 (1994) 393
Tanahashi, T., see Kondo 141 (1994) 1
Tang, D., see Tan 141 (1994) 393
Tegetmeier, A., A. Cröll and K.W. Benz, A formula describing the temperature dependence of surface tension for some semiconductor melts 141 (1994) 451
Terasaki, R., see Okajima 141 (1994) 357
Terui, Y., see Okajima 141 (1994) 357
Tokumoto, M., see Anzai 141 (1994) 119
Tomita, M., see Fölsch 141 (1994) 256
Trayanov, A., see Markov 141 (1994) 239
Tsugami, M., see Mihashi 141 (1994) 22
Tsuji, Y., see Okano 141 (1994) 383
Tsuru, K., see Matsubara 141 (1994) 131

Uchida, T., see Anzai 141 (1994) 119
Ueda, M., see Hirokawa 141 (1994) 200

Van der Heijden, A.E.D.M., see Van Driel 141 (1994) 404
Van Driel, C.A., A.E.D.M. van der Heijden, S. de Boer and G.M. van Rosmalen, The III–IV phase transition in ammonium nitrate: mechanisms 141 (1994) 404
Van Rosmalen, G.M., see Van Driel 141 (1994) 404
Vdovin, V.I., M.G. Mil'vidskii, T.G. Yugova, K.L. Lyutovich and S.M. Saidov, Effect of alloy composition on defect formation in Ge_xSi_{1-x}/ Si heterostructures obtained by molecular beam epitaxy 141 (1994) 109

Waag, A., see Fischer 141 (1994) 93
Wettling, W., see Baldus 141 (1994) 315
Weyher, J.L., R. Fornari, T. Görög, J.J. Kelly and B. Erné, $HBr–K_2Cr_2O_7–H_2O$ etching system for indium phosphide 141 (1994) 57
Winkel, G., see Kriebel 141 (1994) 124
Wuttig, M., see Hua 141 (1994) 165

Yamamoto, N., see Sugiura 141 (1994) 299
Yamashita, A., see Fölsch 141 (1994) 256
Yamashita, H., see Matsubara 141 (1994) 131
Yiu Guiming, see He 141 (1994) 389
Yodo, T., M. Tamura and T. Saitoh, Relationship between the optical and structural properties in GaAs heteroepitaxial layers grown on Si substrates 141 (1994) 331
Yoon, D.H., see Okano 141 (1994) 383
Yoon, S.F., see Han 141 (1994) 51
Yugova, T.G., see Vdovin 141 (1994) 109

Zhang, L., see Bretz 141 (1994) 304
Zhao, T.R., see Jang 141 (1994) 153

ELSEVIER

Journal of Crystal Growth 141 (1994) 492–494

JOURNAL OF CRYSTAL GROWTH

Subject index

Aluminum
– gallium arsenide 22, 51, 324
– gallium indium phosphide 1
– magnesium alloy 209
– nitride 11
– organic 1
Ammonium
– nitrate 404
Apparatus
– for miscellaneous purposes
– – graphite boat design in liquid phase epitaxy 376
– – in situ scanning force microscopy 291
– – luminescent devices, grown by electron beam evaporation 165
– – stereo imaging of solid–melt interface 455
Arsenic
– organic 347

Barium
– borate, β 393
Bismuth
– germanate 371
– silicate 371
– strontium calcium cuprate 131, 479
Burton–Prim–Slichter theory
– for distribution coefficient
– – in (cubic) zirconia 159

Cadmium
– magnesium telluride 93
– mercury telluride 352
– selenide 68, 75
– sulphide 68, 75, 437
– telluride 81, 93
Carbon 304
Characterization
– by cracks
– – of epitaxial overlayers 239
– by electron microscopy
– – of solid fats 200
– by liquid permeation
– – of solid fats 200
– by photoluminescence
– – of aluminum gallium arsenide multi-quantum-well lasers 22
– by physical methods
– – of lysozyme solutions 183
– by scanning force microscopy
– – of L-ascorbic acid 291
– – of lithium fluoride 291
– by second harmonic generation
– – of organic nonlinear optical material 389
– by X-ray diffraction
– – of strain state of GeSi/Si 103
Computer simulation
– of horizontal Bridgman solidification 279
– of morphology of molecular crystals 443
– of organic (tubes) by floating zone 265
Constitutional supercooling
– of cadmium telluride 81
– of germanium–silicon alloy 219
Convection 209, 265, 279

Device characterization
– diodes 29
– electronic materials 81, 93, 315
– lasers 299
– optoelectronic materials 29, 389, 393, 425
– quantum wells 22, 37, 51, 299
Diffusional control
– of cadmium telluride 81
Diodes, see Device characterization
Dislocations
– in epitaxial overlayers 239
Dissolution
– of lysozyme 183

Electronic materials, see Device characterization
Epitaxy, see Thin film growth
Etching
– chemical 29, 57, 234, 343, 357, 476
Eutectic growth
– of silicon–gold 357

Fats
– solid 200

Gallium
– antimonide 44, 476

– arsenide 1, 29, 51, 249, 315, 324, 331, 343, 347
– nitride 11
Germanium
– silicon 103, 109, 219, 363

Heat flow control
– in Czochralski grown lithium tantalate 383
L-Histidine 193
Hydrodynamics, see Convection

Indium
– gallium arsenide 37
– gallium arsenide phosphide 299
– phosphide 57
– phosphide antimonide 310

Kinetics
– of doping in silicon epitaxy 98
– of growth 193, 219, 419, 425, 465, 476
– of interface control 209, 473

Lasers, see Device characterization
Lasers, crystals for
– aluminum gallium arsenide 22
– lead selenide telluride 376
Lead
– bromide 455
– cuprate 124
– selenide telluride 376
Lithium
– gallium 399
– tantalate 383
Lysozyme 183, 419

Melt growth technique
– by Bridgman–Stockbarger method
– – of aluminum–magnesium alloy 209
– – of gallium antimonide 44, 476
– – of gallium arsenide 29
– – of lead bromide 455
– – of lithium–gallium 399
– – theory of 279
– by Czochralski method
– – of bismuth germanates 371
– – of bismuth silicates 371
– – of lithium tantalate 383
– – of silicon–germanium 473
– – of strontium barium niobate 178
– – theory of meniscus height 484
– – theory of segregation 249
– by floating zone method
– – theory of 256, 265
– by pulling with a gold wire
– – of bismuth strontium cuprate 175
– by skull melting
– – of (cubic) zirconia 159
– by uniaxial solidification
– – of germanium–silicon alloy 219
– – theory of 219
– by zone melting
– – of gallium arsenide 343
Mercury
– cadmium telluride 352
– (II) iodide 465
Microgravity, growth under
– of mercury (II) iodide 465
Morphological stability
– of cadmium sulphide in polymer matrix 437
– of germanium–silicon alloy 219
– of L-histidine 193

Naphthalene
– biphenyl 443
Nonlinear optics, crystals for
– barium borate, β 393
– organic crystals 389, 425
Nucleation
– of dislocations in germanium–silicon 363
– of L-histidine 193
Numbers
– Grashof 279
– Marangoni 279
– Prandtl 265, 279
– Rayleigh 209
– Schmidt 279

Optoelectronic materials, see Device characterization
Organic crystals 256, 443
– nonlinear optical material 289, 425
– superconductors 119

Phase diagrams
– of ammonium nitrate 404
– of copper oxide/bismuth strontium oxide 175
– of etchant for indium phosphide 57
– of silicon–gold 357
– of yttrium oxide/copper oxide 153
Precursor
– for doping in gallium arsenide 347
Purification of materials
– of lysozyme 183

Quantum wells, see Device characterization

Semiconductor melts 451
Silicon 98, 265
– germanium 473
Sodium
– nitrate 265
Solid growth technique
– by polymorphic transformation
– – of ammonium nitrate 404
– – of fats, solid 200
– – of L-histidine 193

Solution growth technique
– by electrocrystallization
– – of organic superconductor 119
– by flux method
– – of barium borate, β 393
– – of lead cuprate, superconductor 124
– – of L-histidine 193
– – of yttrium cuprate 150, 153
– by low temperature method
– – of cadmium sulphide in presence of polymer 437
– – of lysozyme 419
– – of organic crystals 389, 425
– theory of 443
Stefan problem or moving boundary problem
– of (cubic) zirconium 159
Strontium
– barium niobate 178
– sulphide 165
– titanate 141
Superconductivity materials, high T_c
– bulk
– – of lead strontium (yttrium calcium) cuprate 124
– film
– – of BSCCO 479
– – of YBCO 141
– whisker
– – of BSCCO 131
Superconductivity materials, low T_c
– bulk
– – of organic crystals 119
Superlattices, multilayers
– of superconductor 141
– of III–V compounds 51
Surface energy, determination
– of naphthalene biphenyl 443
– of semiconductor melts 451
Surface morphology
– of gallium antimonide 476
Surface structure
– of carbon microtubule 304
– of naphthalene biphenyl 443

Tellurium
– dioxide 371
Thin film growth, epitaxy
– by chemical beam epitaxy
– – of gallium arsenide 347
– by electron beam epitaxy
– – of strontium sulphide 165
– by hot wall epitaxy
– – of cadmium selenide 68, 75
– – of cadmium sulphide 68, 75
– by liquid phase epitaxy
– – of gallium arsenide 315
– – of germanium–silicon 363
– – of lead selenide telluride 376
– – of mercury cadmium telluride 352
– by metalorganic molecular beam epitaxy
– – of indium gallium arsenide phosphide 299
– by molecular beam epitaxy
– – of aluminum gallium arsenide 51
– – of aluminum nitride 11
– – of cadmium magnesium telluride 93
– – of cadmium telluride 93
– – of gallium arsenide 51, 315, 331
– – of gallium nitride 11
– – of germanium–silicon alloy 109
– – of indium gallium arsenide 37
– – of organic crystals 256
– – of zinc selenide 89
– by pulsed layer deposition
– – of yttrium barium cuprate 141
– by sputtering
– – of bismuth strontium calcium cuprate 479
– by vapor phase epitaxy
– – through chemical vapor deposition
– – – of silicon 98
– – through metalorganic chemical vapor deposition
– – – of aluminum gallium arsenide 22, 324
– – – of aluminum gallium indium phosphide 1
– – – of gallium arsenide 1, 324
– – – of indium phosphide antimonide 310
Twinning
– of zinc oxide 234

Vapor growth technique
– by chemical transport
– – of zinc oxide 234
– by evaporation and condensation
– – of cadmium telluride 81
– – of carbon fiber 304
– – of mercury (II) iodide 465
Vapor–liquid–solid growth
– of silicon 357

Whisker growth
– of bismuth strontium calcium cuprate 131
– of carbon fiber 304
– of silicon 357
– of zinc oxide 234

Yttrium
– cuprate 150, 153

Zinc
– oxide 204
– selenide 89
Zirconia (cubic) 159
Zirconium
– dioxide 159